

Title (en)

DRY ENERGY STORAGE DEVICE ELECTRODE AND METHODS OF MAKING THE SAME

Title (de)

TROCKENE ENERGIESPEICHERVORRICHTUNGSELEKTRODE UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

ÉLECTRODE DE DISPOSITIF DE STOCKAGE D'ÉNERGIE SOUS ABRI ET PROCÉDÉS DE FABRICATION DE CELLE-CI

Publication

EP 3132481 B1 20211020 (EN)

Application

EP 15719393 A 20150417

Priority

- US 201461981602 P 20140418
- US 2015026526 W 20150417

Abstract (en)

[origin: US2015303481A1] An energy storage device can include a cathode and an anode, where at least one of the cathode and the anode are made of a polytetrafluoroethylene (PTFE) composite binder material including PTFE and at least one of polyvinylidene fluoride (PVDF), a PVDF co-polymer, and poly(ethylene oxide) (PEO). The energy storage device can be a lithium ion battery, a lithium ion capacitor, and/or any other lithium based energy storage device. The PTFE composite binder material can have a ratio of about 1:1 of PTFE to a non-PTFE component, such a PVDF, PVDF co-polymer and/or PEO.

IPC 8 full level

H01M 4/04 (2006.01); **H01M 4/62** (2006.01); **H01M 4/131** (2010.01); **H01M 4/1391** (2010.01); **H01M 4/1393** (2010.01); **H01M 4/587** (2010.01)

CPC (source: CN EP KR US)

H01G 9/0425 (2013.01 - CN KR US); **H01G 9/15** (2013.01 - CN KR US); **H01M 4/0435** (2013.01 - CN EP KR US); **H01M 4/13** (2013.01 - KR); **H01M 4/622** (2013.01 - CN EP KR US); **H01M 4/623** (2013.01 - CN EP KR US); **H01M 4/625** (2013.01 - CN KR US); **H01M 10/0525** (2013.01 - CN KR US); **H01M 4/131** (2013.01 - CN EP US); **H01M 4/1391** (2013.01 - CN EP US); **H01M 4/1393** (2013.01 - CN EP US); **H01M 4/587** (2013.01 - CN EP US); **Y02E 60/10** (2013.01 - EP KR); **Y02E 60/13** (2013.01 - EP KR)

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US 10741843 B2 20200811; **US 2015303481 A1 20151022**; CN 106463267 A 20170222; CN 113223860 A 20210806; CN 113223860 B 20230808; EP 3132481 A1 20170222; EP 3132481 B1 20211020; EP 4016666 A1 20220622; ES 2902211 T3 20220325; JP 2017517862 A 20170629; JP 2019216101 A 20191219; JP 6885864 B2 20210616; JP 6917418 B2 20210811; KR 102342275 B1 20211222; KR 102463477 B1 20221104; KR 20160145043 A 20161219; KR 20210156340 A 20211224; MX 2016013413 A 20170406; MX 2022015797 A 20230124; US 11876230 B2 20240116; US 2020358100 A1 20201112; US 2024105955 A1 20240328; WO 2015161289 A1 20151022

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